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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/706,637	10/706,637 11/12/2003		Jacques C.S. Kools	021208.0247	7020	
31625	7590	08/03/2005		EXAMINER		
BAKER BO			PICARDAT, KEVIN M			
		VD., SUITE 1500	ART UNIT	PAPER NUMBER		
AUSTIN, TX 78701-4039				2822		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	tion No.	Applicant(s)				
		10/706,	637	KOOLS ET AL.	KOOLS ET AL.			
	Office Action Summary	Examin	er	Art Unit				
		Kevin M	. Picardat	2822				
Period fo	The MAILING DATE of this commun or Reply	ication appears on ti	he cover sheet w	ith the correspondence a	ddress			
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNING IN THE COMMUNING PROPERTY OF THIS COMMUNING OF THIS COMMUNING OF THE COMMUNING OF THE COMMUNICATION OF THE COMMUNICAT	CATION. of 37 CFR 1.136(a). In no enunication. O) days, a reply within the statutory period will apply and will, by statute, cause the approximation.	event, however, may a atutory minimum of thi will expire SIX (6) MOI oplication to become Al	reply be timely filed ty (30) days will be considered time NTHS from the mailing date of this of BANDONED (35 U.S.C. § 133).				
Status		•						
1)⊠	Responsive to communication(s) file	ed on <u>15 June 2005</u> .						
2a)□	This action is <b>FINAL</b> .	2b)⊠ This action is	non-final.					
3)[	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
4)🖂	)⊠ Claim(s) <u>1-40</u> is/are pending in the application.							
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	☐ Claim(s) is/are allowed. ☐ Claim(s) <u>1-40</u> is/are rejected.							
6)🖾								
7)	Claim(s) is/are objected to.							
8)□	Claim(s) are subject to restrict	tion and/or election	requirement.					
Applicat	ion Papers				•			
9)[	The specification is objected to by the	e Examiner.						
10)⊠ The drawing(s) filed on <u>12 November 2003</u> is/are: a)□ accepted or b)□ objected to by the Examiner.								
	Applicant may not request that any object	ction to the drawing(s)	be held in abeya	nce. See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including	the correction is requ	ired if the drawing	(s) is objected to. See 37 C	FR 1.121(d).			
11)	The oath or declaration is objected to	by the Examiner. N	Note the attache	d Office Action or form P	TO-152.			
Priority (	ınder 35 U.S.C. § 119							
	Acknowledgment is made of a claim	for foreian priority u	nder 35 U.S.C. i	\$ 119(a)-(d) or (f)				
	☐ All b)☐ Some * c)☐ None of:	ioi ioioigii piioiity u		3 113(α)-(α) οι (ι).				
۵),	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority			Application No.				
	3. Copies of the certified copies			·· ——	Stage			
	application from the Internatio	nal Bureau (PCT Rı	ule 17.2(a)).		-			
* 5	See the attached detailed Office actio	n for a list of the cer	tified copies not	received.				
•			•		· ·			
Attachmen	• •		<b>Λ</b> , □ 1=4 · · · · · ·	D				
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P	TO-948)		Summary (PTO-413) s)/Mail Date				
3) 🛛 Infori	mation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date <u>2/18/5,2/10/4,6/15</u> /o <sup>5</sup> ·		5) Notice of I	nformal Patent Application (PT	O-152)			

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Adomaitis et al. US 6,821,910, in view of Kilpela et al. US 6,820,570.

Adomaitis et al. discloses a method and apparatus for forming a conformal film including a gas inlet for introducing a gas into an expansion volume, and flowing the gas through a diffuser plate, the diffuser plate having a protrusion (24) located opposite the gas inlet, the protrusion operable to reduce turbulence in the volume (see figs. 3A-5 and related text).

Adomaitis et al. does teach using the method or apparatus for ALD.

Kilpela et al. discloses the need to form conformal ALD films and the desire to better control the gas flow during ALD process (see figs. 2-3B and related text).

Therefore it would be obvious to one of ordinary skill in the art to use the method and apparatus of Adomaitis et al. to form a conformal ALD film as suggested by Kilpela et al. because Adomaitis et al. teaches a better way to control the gas and thus forming a more uniform film deposition.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin M. Picardat whose telephone number is 571-272-1841. The examiner can normally be reached on Monday-Thursday 7:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amir Zarabian can be reached on 571-272-1852. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kevin M. Picardat Primary Examiner Art Unit 2822

kmp